

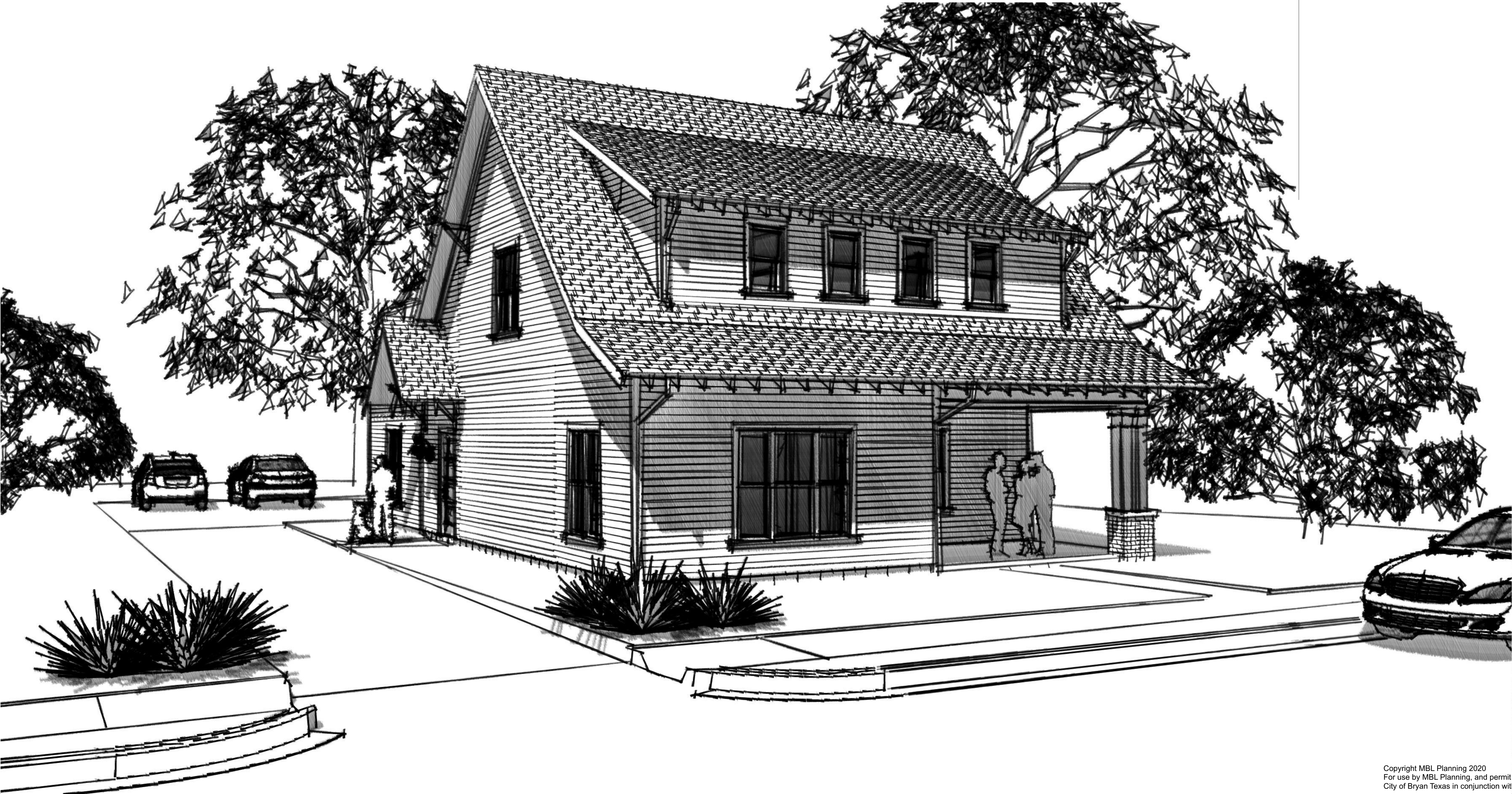
PLAN ID: APARTMENT HOUSE - Option 3 Shed Dormer Apartment House

DESCRIPTION:

2 LEVEL 3 BED 3 BATH 2,493 SQ. FT.

APPLICABLE CODES:

RESIDENTIAL CODE: 2015 INTERNATIONAL RESIDENTIAL CODE
ACCESSIBILITY: 2009 ANSI A117.1 & TEXAS ACCESSIBILITY STANDARDS FAIR HOUSING



INDEX

COVER SHEET

A0 GENERAL INFORMATION

A0.1 GENERAL INFORMATION

A1 FLOOR PLANS

A2 ROOF PLAN & POWER PLANS

A3 EXTERIOR ELEVATIONS & BUILDING SECTIONS

A4 WALL SECTIONS & TYPICAL DETAILS

CODE RESEARCH



APARTMENT HOUSE
Option 3 Shed Dormer Apartment House
BRYAN, TEXAS

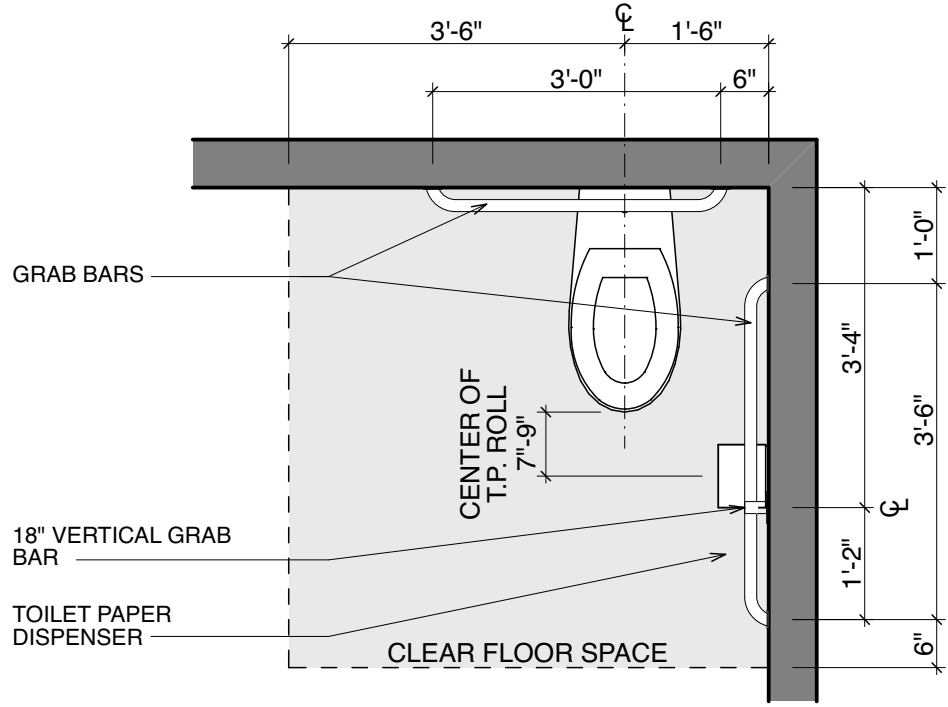
JOB NO.
180012
ISSUE DATE
8/25/20
CD

REVISIONS

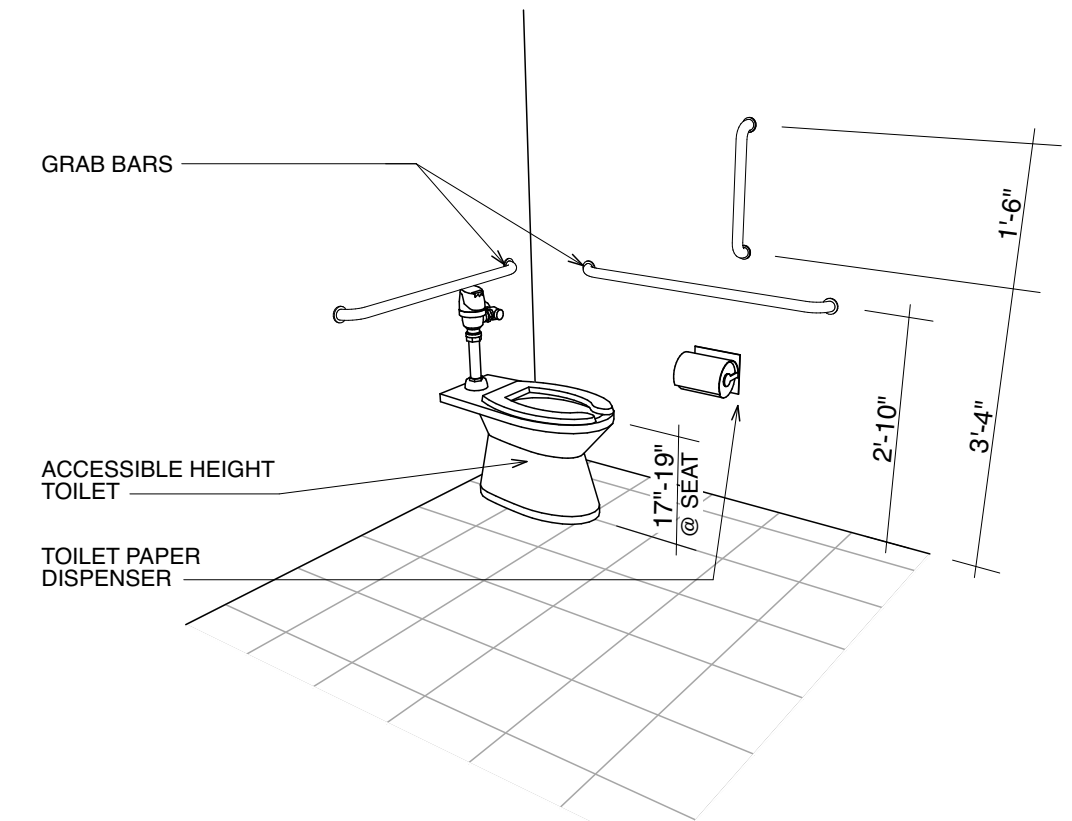
SHEET
CONTENTS

SHEET
COVER

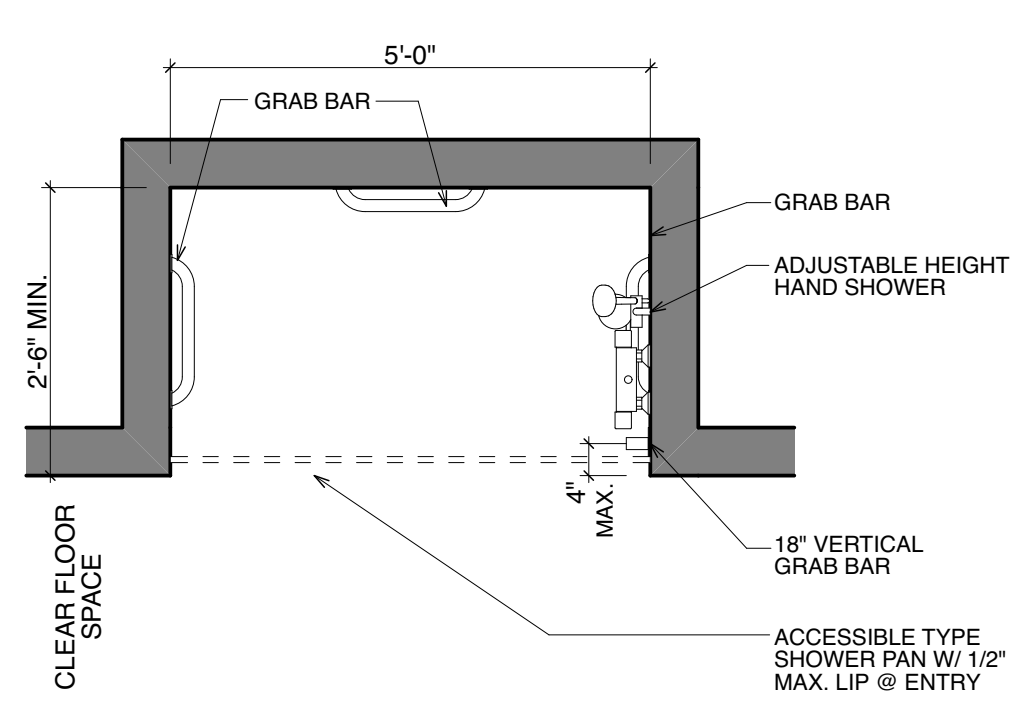
WALLS AND INTERIOR PARTITIONS, WOOD FRAMED			
GA FILE NO. WP 3241	PROPRIETARY†	1 HOUR FIRE	50 to 54 STC SOUND
GYPSUM WALLBOARD, RESILIENT CHANNELS, MINERAL FIBER INSULATION, WOOD STUDS			
Resilient channels 24" o.c. attached at right angles to ONE SIDE of 2 x 4 wood studs 16" or 24" o.c. with 1 1/4" Type S drywall screws. One layer 5/8" proprietary type X gypsum wallboard or gypsum veneer base applied parallel to channels with 1" Type S drywall screws 12" o.c. End joints backblocked with resilient channels. 3" mineral fiber insulation, 2.0 or 2.3 pcf, in stud space.			
OPPOSITE SIDE: one layer 5/8" proprietary type X gypsum wallboard or gypsum veneer base applied at right angles to studs with 1 1/4" Type W drywall screws 12" o.c.			
Vertical joints staggered 48" on opposite sides. Sound tested with studs 16" o.c. and open face of mineral fiber insulation blankets toward resilient channel-side of stud space. (LOAD-BEARING)			
PROPRIETARY GYPSUM BOARD			
American Gypsum Company 5/8" FIREBLOC TYPE C CertainTeed Gypsum, Inc. 5/8" ProRock Type C Gypsum Panels G-P Gypsum 5/8" ToughRock® Fireguard® C Lafarge North America Inc. 5/8" Firecheck® Type C National Gypsum Company 5/8" Gold Bond® Brand FIRE-SHIELD CW PABCO Gypsum Gypsum Wallboard Temple-Inland Forest Products Corporation 1/2" FLAME CURB® Super C® 5/8" TG-C			
†Contact the manufacturer for more detailed information on proprietary products.			
FLOOR-CEILING SYSTEMS, WOOD FRAMED			
GA FILE NO. FC 5111	GENERIC	1 HOUR FIRE	50 to 54 STC SOUND
WOOD I-JOISTS, GYPSUM WALLBOARD, RESILIENT CHANNELS			
Base layer 1/2" type X gypsum wallboard applied at right angles to resilient channels 16" o.c. with 1 1/4" Type S drywall screws 12" o.c. Resilient channels applied at right angles to minimum 9 1/2" deep wood I-joists, with minimum 1 1/4" deep x 1 1/2" wide flanges and minimum 3/4" webs, 24" o.c. with 1 1/4" Type W drywall screws. Face layer 1/2" type X gypsum wallboard applied at right angles to channels with 1 1/2" Type S drywall screws 12" o.c. Face layer end joints located midway between channels and attached to base layer with 1 1/2" Type G screws 12" o.c. Edge joints offset 24" from base layer edge joints. Wood I-joists supporting 3/4" oriented strand board applied at right angles to I-joists with 8d common nails 12" o.c.			
STC and IIC tested with 40 oz carpet over 1/4" foam pad.			
ADD 3" MINERAL FIBER SOUND ATTENUATING INSULATION OVER RESILIENT CHANNELS BETWEEN JOISTS.			



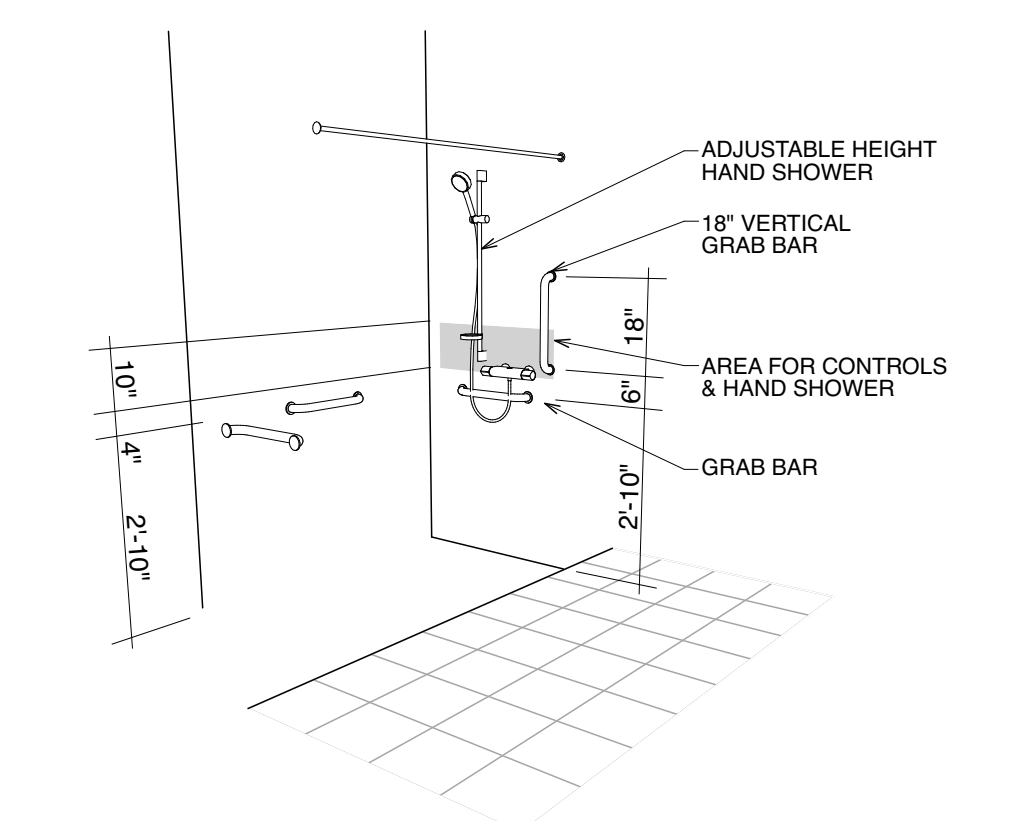
1 TYPICAL ACCESSIBLE TOILET
SCALE: 1/2" = 1'-0"



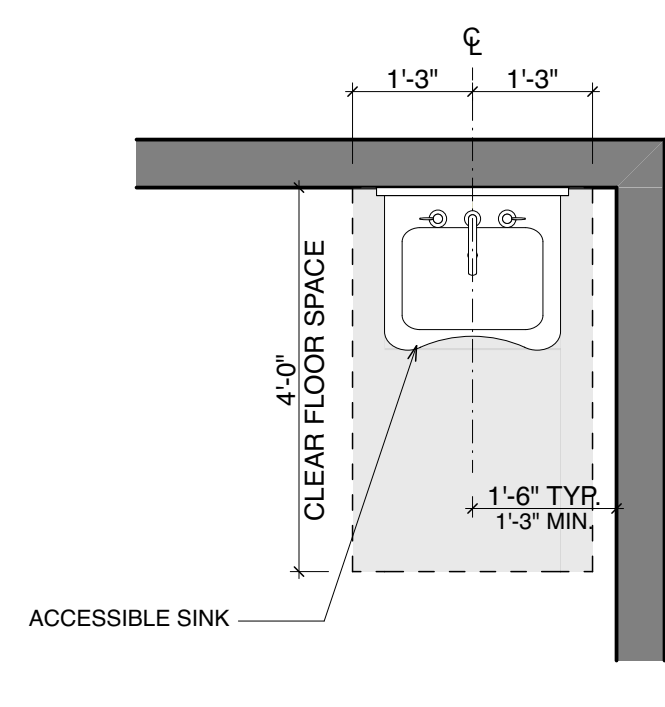
4 TYPICAL ACCESSIBLE TOILET
SCALE: 3/8" = 1'-0"



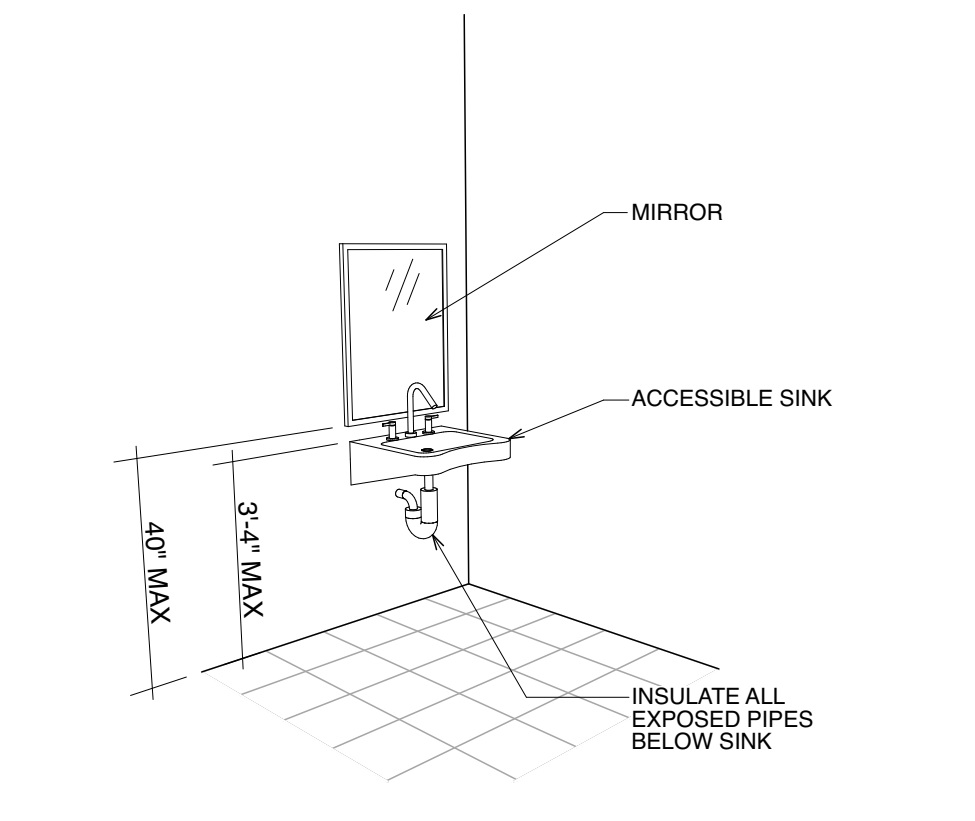
2 ROLL-IN TYPE SHOWER
SCALE: 1/2" = 1'-0"



5 ROLL-IN TYPE SHOWER
SCALE: 1/16" = 1'-0"



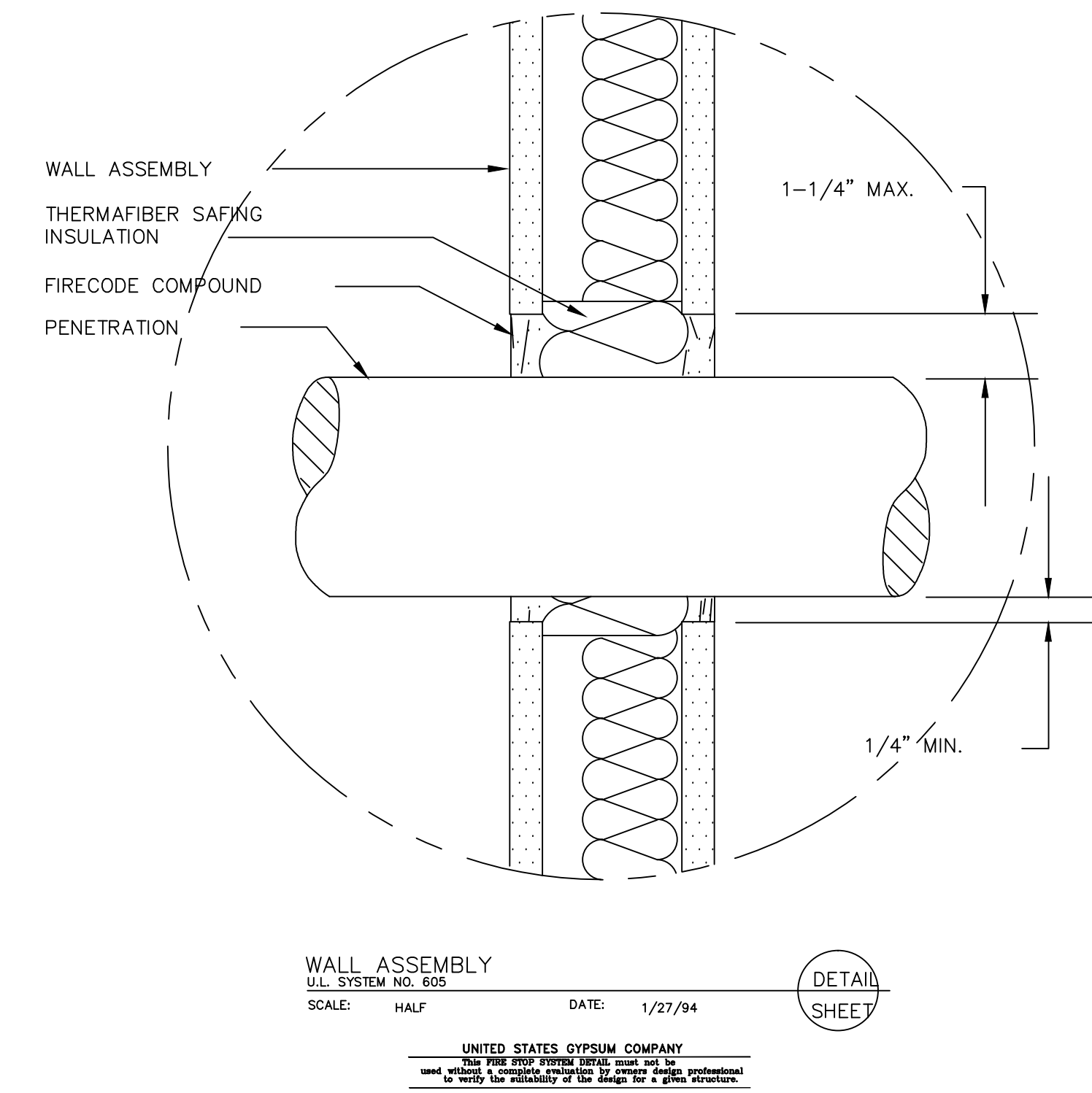
3 WALL MOUNT LAVATORY
SCALE: 1/2" = 1'-0"



6 WALL MOUNT LAVATORY
SCALE: 1/16" = 1'-0"

EXTERIOR WALL			
GA FILE NO. WP 8415	GENERIC	2 HOUR FIRE	
GYPSUM SHEATHING, GYPSUM WALLBOARD, WOOD STUDS			
EXTERIOR SIDE: Base layer 3/4" type X gypsum sheathing applied parallel or at right angles to 2 x 4 wood studs 24" o.c. with 6d coated nails, 1 1/4" long, 0.085" shank, 1/4" heads, 24" o.c. Face layer 3/4" type X gypsum sheathing applied parallel or at right angles to studs with 8d coated nails, 2 1/4" long, 0.100" shank, 1/4" heads, 8" o.c. Exterior cladding attached through sheathing to studs.			
INTERIOR SIDE: Base layer 3/4" type X gypsum wallboard or gypsum veneer base applied parallel or at right angles to studs with 6d coated nails, 1 1/4" long, 0.085" shank, 1/4" heads, 24" o.c. Face layer 3/4" type X gypsum wallboard or gypsum veneer base applied parallel or at right angles to studs with 8d coated nails, 2 1/4" long, 0.100" shank, 1/4" heads, 8" o.c.			
Joints staggered 24" each layer and side. (LOAD-BEARING)			
ADD MINIMUM R-15 INSULATION IN CAVITIES BETWEEN STUDS.			
WALLS AND INTERIOR PARTITIONS, WOOD-FRAMED			
GA FILE NO. WP 4135	GENERIC	2 HOUR FIRE	40 to 44 STC SOUND
GYPSUM WALLBOARD, WOOD STUDS			
Base layer 5/8" type X gypsum wallboard or gypsum veneer base applied at right angles to each side of 2 x 4 wood studs 24" o.c. with 6d coated nails, 1 7/8" long, 0.085" shank, 1/4" heads, 24" o.c. Face layer 5/8" type X gypsum wallboard or gypsum veneer base applied at right angles to each side with 8d coated nails, 2 3/8" long, 0.100" shank, 1/4" heads, 8" o.c.			
Joints staggered 24" each layer and side. Sound tested with studs 16" o.c. and with nails for base layer spaced 6" o.c. (LOAD-BEARING)			
ADD 3" MINERAL FIBER SOUND ATTENUATING INSULATION OVER RESILIENT CHANNELS BETWEEN JOISTS.			
Thickness: 6 1/8" Approx. Weight: 12 psf Fire Test: FM WP 360, 9-27-74 Sound Test: NGC 2363, 4-1-70			
FLOOR-CEILING SYSTEMS, WOOD FRAMED			
GA FILE NO. FC 5750	GENERIC	2 HOUR FIRE	
WOOD FLOOR, WOOD I-JOISTS, GYPSUM WALLBOARD, RIGID FURRING CHANNELS			
Base layer 3/4" type X gypsum wallboard applied at right angles to 9 1/2" deep wood I-joists 24" o.c. with 1 1/4" Type W drywall screws 12" o.c. Second layer 3/4" type X gypsum wallboard applied at right angles to I-joists with 2" Type W drywall screws 12" o.c. Second layer joints offset 24" from base layer joints. Third layer 3/4" type X gypsum wallboard applied at right angles to I-joists with 2 1/2" Type W drywall screws 12" o.c. Third layer joints offset 12" from second layer joints. Hat-shaped rigid furring channels 24" o.c. applied at right angles to I-joists over third layer with two 2 1/2" long Type W drywall screws at each I-joint. Face layer 3/4" type X gypsum wallboard applied at right angles to furring channels with 1 1/4" Type S drywall screws 12" o.c. Wood I-joists supporting 3/4" T & G edge plywood floor applied at right angles to I-joists with 8d nails 6" o.c. at joints and 12" at intermediate I-joists. Ceiling provides two-hour fire-resistance protection for wood framing.			
ADD 3" MINERAL FIBER SOUND ATTENUATING INSULATION OVER RESILIENT CHANNELS BETWEEN JOISTS.			
STRUCTURAL DISCLAIMER - JOIST SIZE IS REFERENCED MINIMUM FOR FIRE RATING. STRUCTURAL DETERMINATION BY OTHERS			

- F-C-1069
- Section A-A
- Floor/ceiling assembly:
 - Flooring system: 5/8" thick plywood/2"x 4" continuous wood decking.
 - Wood joist: Nom. 2" x 10" lumber joist.
 - Ceiling system: 1 layer of 5/8" gypsum wallboard, per UL Design.
 - Metallic pipe:
 - Steel pipe: 8" diameter (or smaller) schedule 40 (or heavier) steel pipe.
 - Iron pipe: 8" diameter (or smaller) cast or ductile iron pipe.
 - Conduit: 4" diameter (or smaller) electrical metallic tubing (EMT) or steel conduit.
 - Copper tubing: 4" diameter (or smaller) Type L (or heavier) copper tubing.
 - Copper pipe: 4" diameter (or smaller) regular (or heavier) copper pipe. Annular space from minimum 0" to maximum 7/8".
 - Forming and fire stop materials:
 - Forming material (optional): Foam backer rod packed into opening as a permanent form.
 - Type IA: Minimum 1/2" thick sealant applied within the annulus, flush with the top of the floor and bottom of the ceiling assemblies. Additional sealant to be applied such that a minimum 1/2" crown is formed around the penetrating item.



WALL ASSEMBLY
UL SYSTEM NO. 605
SCALE: HALF DATE: 1/27/94
UNITED STATES GYPSUM COMPANY
Use this fire stop system only as shown on this sheet. Do not use any other materials or methods unless approved by a qualified professional. We warrant the reliability of the design for a given installation.

Wall Bracing Simplified

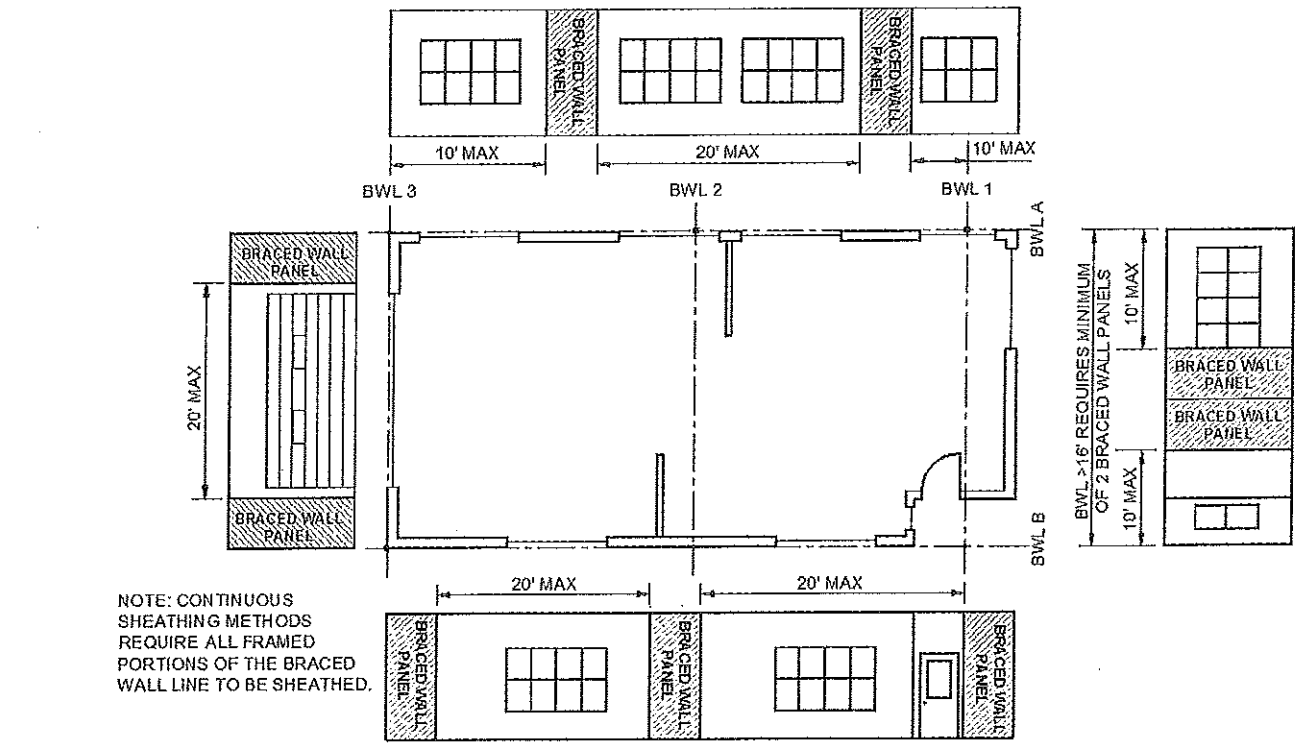
The following options are for narrow wall bracing adjacent to door / window openings and when a 4' braced panel cannot be achieved within 10' of building corners and every 20' of wall length:

Option #1:

Continuous sheathed method (CS-G) R603.10.4:

- 8' plate = 24" wide braced wall panel
- 9' plate = 27" wide braced wall panel
- 10' plate = 30" wide braced wall panel
- 10' plate = 33" wide braced wall panel
- 12' plate = 36" wide braced wall panel

WALL CONSTRUCTION



For ST: 1 inch = 304.8 mm.

FIGURE R602.10.2.2
LOCATION OF BRACED WALL PANELS

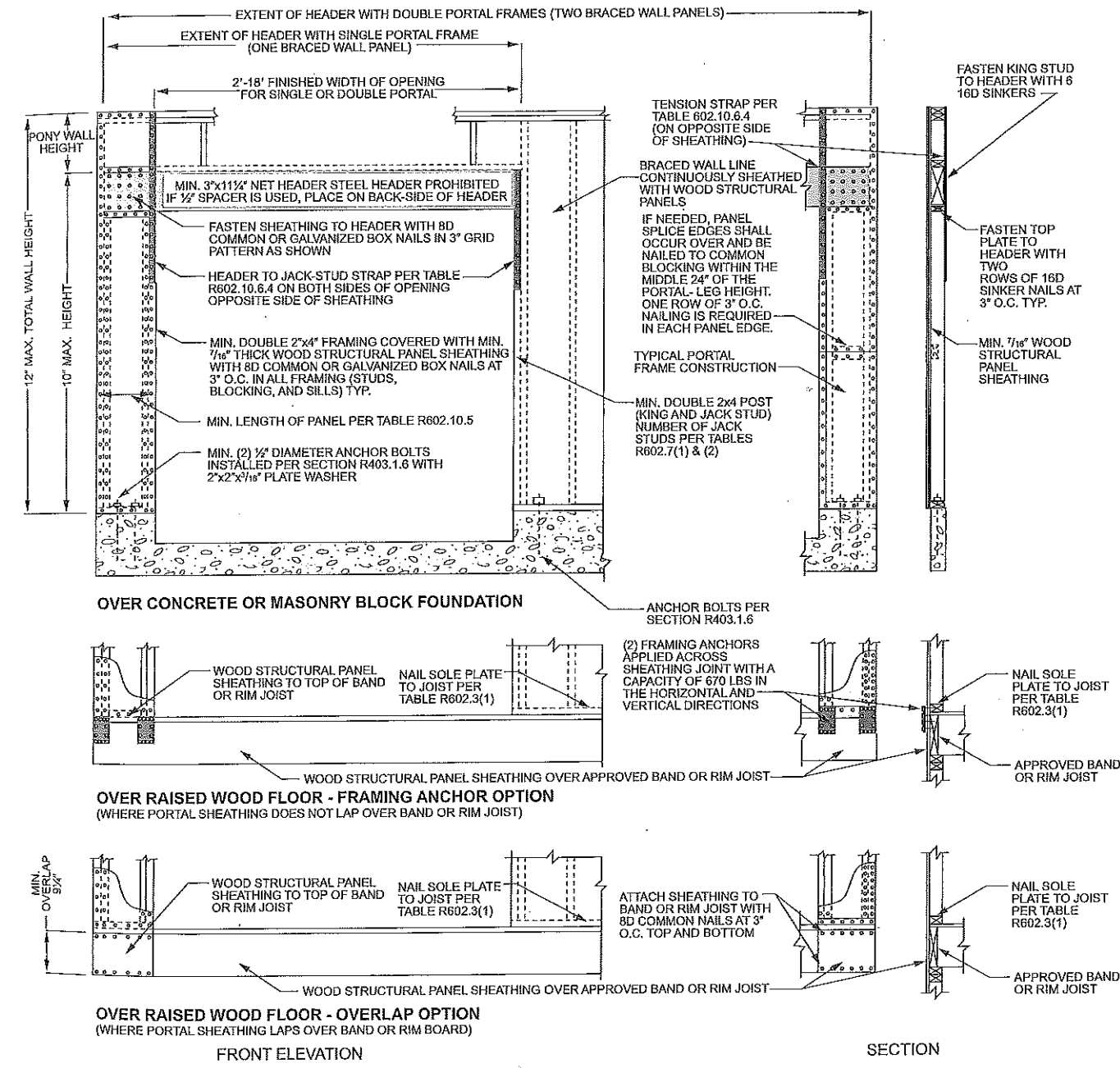
Wall Bracing Simplified

Option # 5

Continuous Sheathed Portal Frame (CS-PF), R602.10.6.4

- 8' plate = 16" wide braced wall panel
- 9' plate = 18" wide braced wall panel
- 10' plate = 20" wide braced wall panel
- 11' plate = 22" wide braced wall panel
- 12' plate = 24" wide braced wall panel

*Special straps required per Figure R602.10.6.4
*Braced wall panels within 10' of corners and every 20' on wall length



For ST: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE R602.10.6.4
METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION

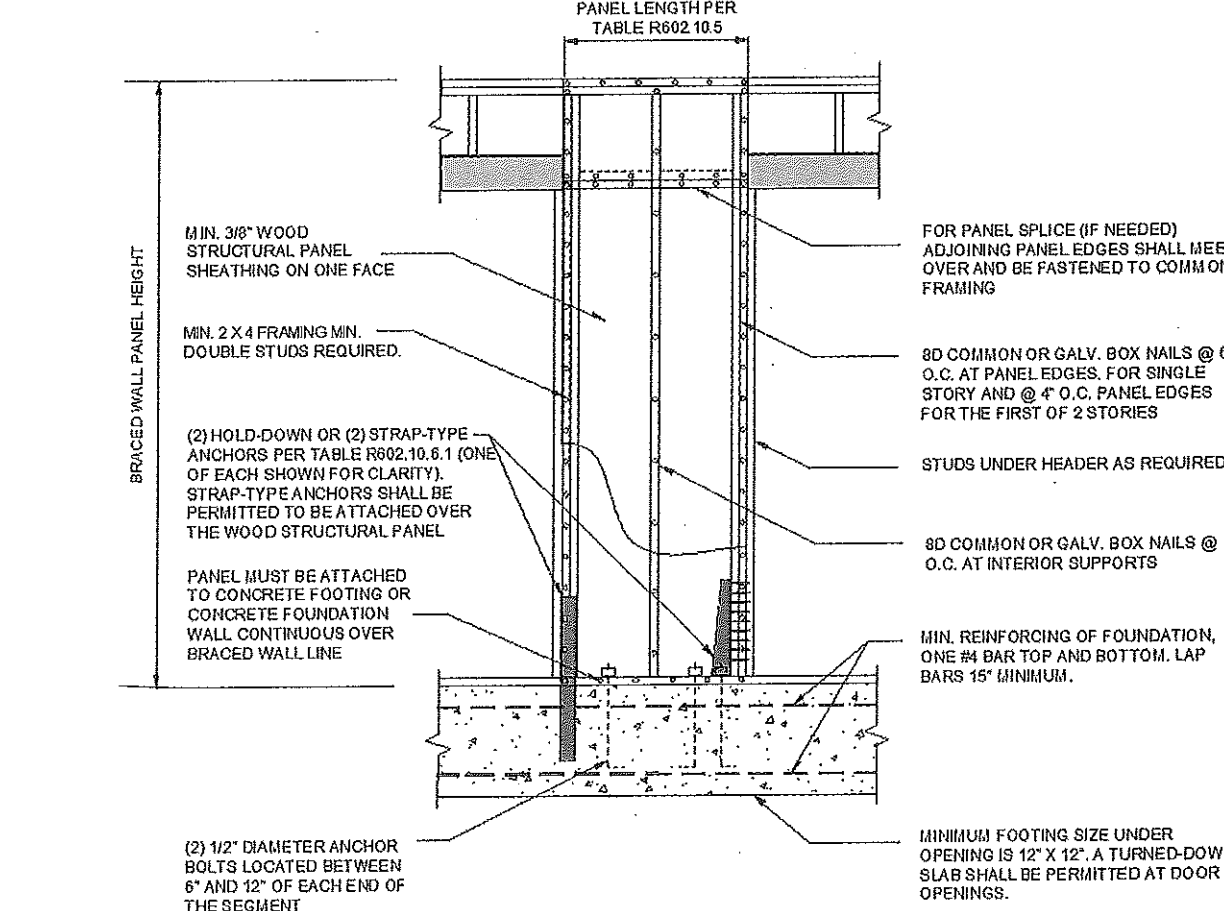
Wall Bracing Simplified

Option #2:

Alternate Braced Wall Panel (ABW) 602.10.6.1:

- 8' plate = 28" wide braced wall panel
- 9' plate = 32" wide braced wall panel
- 10' plate = 34" wide braced wall panel
- 12' plate = 42" wide braced wall panel

*Special straps required per Figure R602.10.6.1
*Braced wall panels within 10' of corners and every 20' on wall length



For ST: 1 inch = 25.4 mm.

FIGURE R602.10.6.1
METHOD ABW—ALTERNATE BRACED WALL PANEL

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Wall Bracing Simplified

Option #3:

Portal Frame with Hold-Downs (PFH), R602.10.6.2:

Supporting roof only:

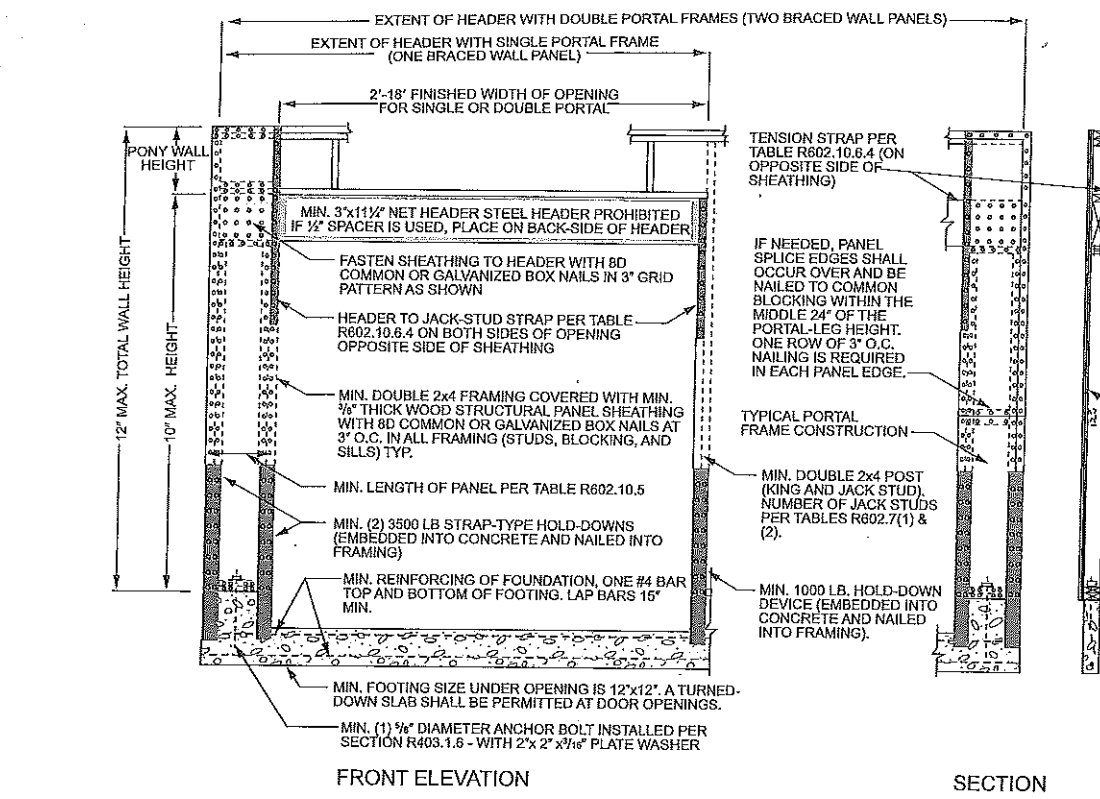
- 8' plate = 16" wide braced wall panel
- 9' plate = 16" wide braced wall panel
- 10' plate = 16" wide braced wall panel
- 11' plate = 18" wide braced wall panel
- 12' plate = 20" wide braced wall panel

Two story:

- 8' plate = 24" wide braced wall panel
- 9' plate = 24" wide braced wall panel
- 10' plate = 24" wide braced wall panel
- 11' plate = 27" wide braced wall panel
- 12' plate = 29" wide braced wall panel

*Special straps required per Figure R602.10.6.2
*Braced wall panels within 10' of corners and every 20' on wall length

WALL CONSTRUCTION



For ST: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE R602.10.6.2
METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS

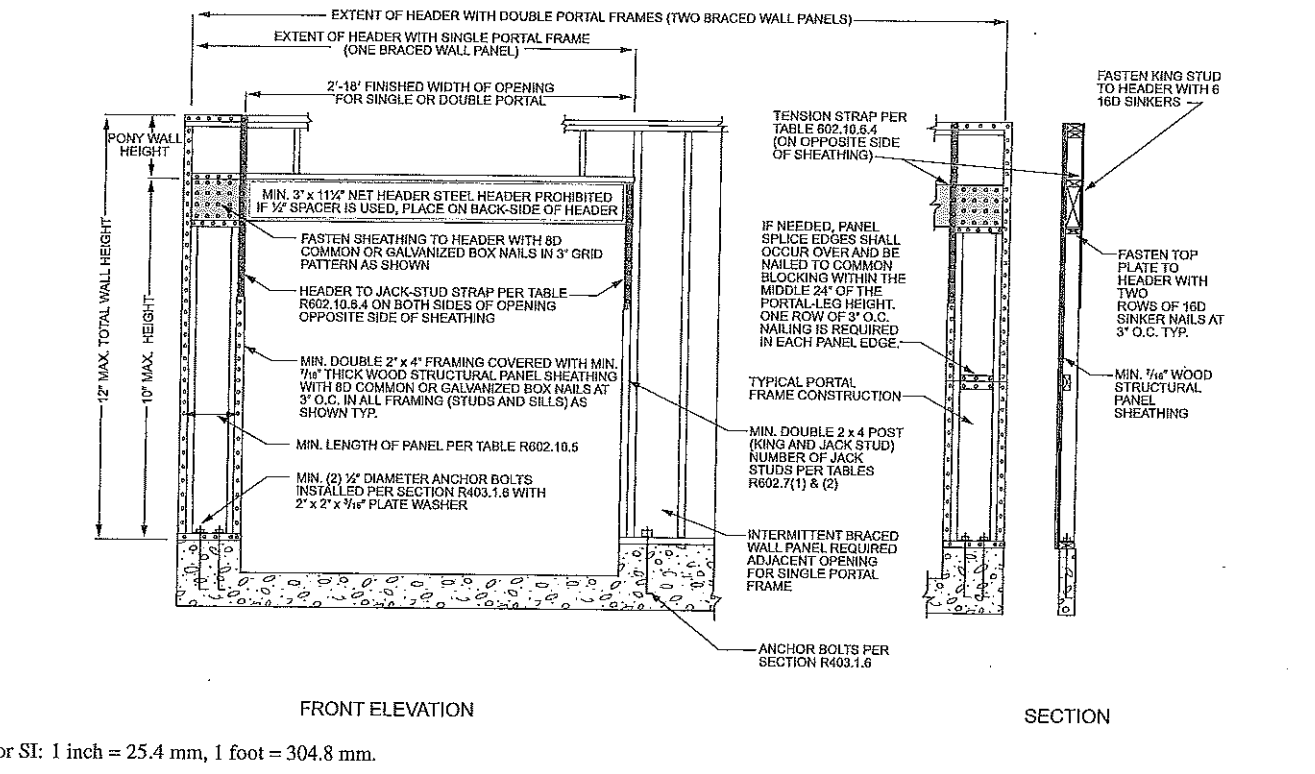
Wall Bracing Simplified

Option #4:

Portal Frame at Garage Opening (PFG), R602.10.6.3

- 8' plate = 24" wide braced wall panel
- 9' plate = 27" wide braced wall panel
- 10' plate = 30" wide braced wall panel
- 11' plate = 33" wide braced wall panel
- 12' plate = 36" wide braced wall panel

*Special straps required per Figure R602.10.6.3
*Braced wall panels within 10' of corners and every 20' on wall length

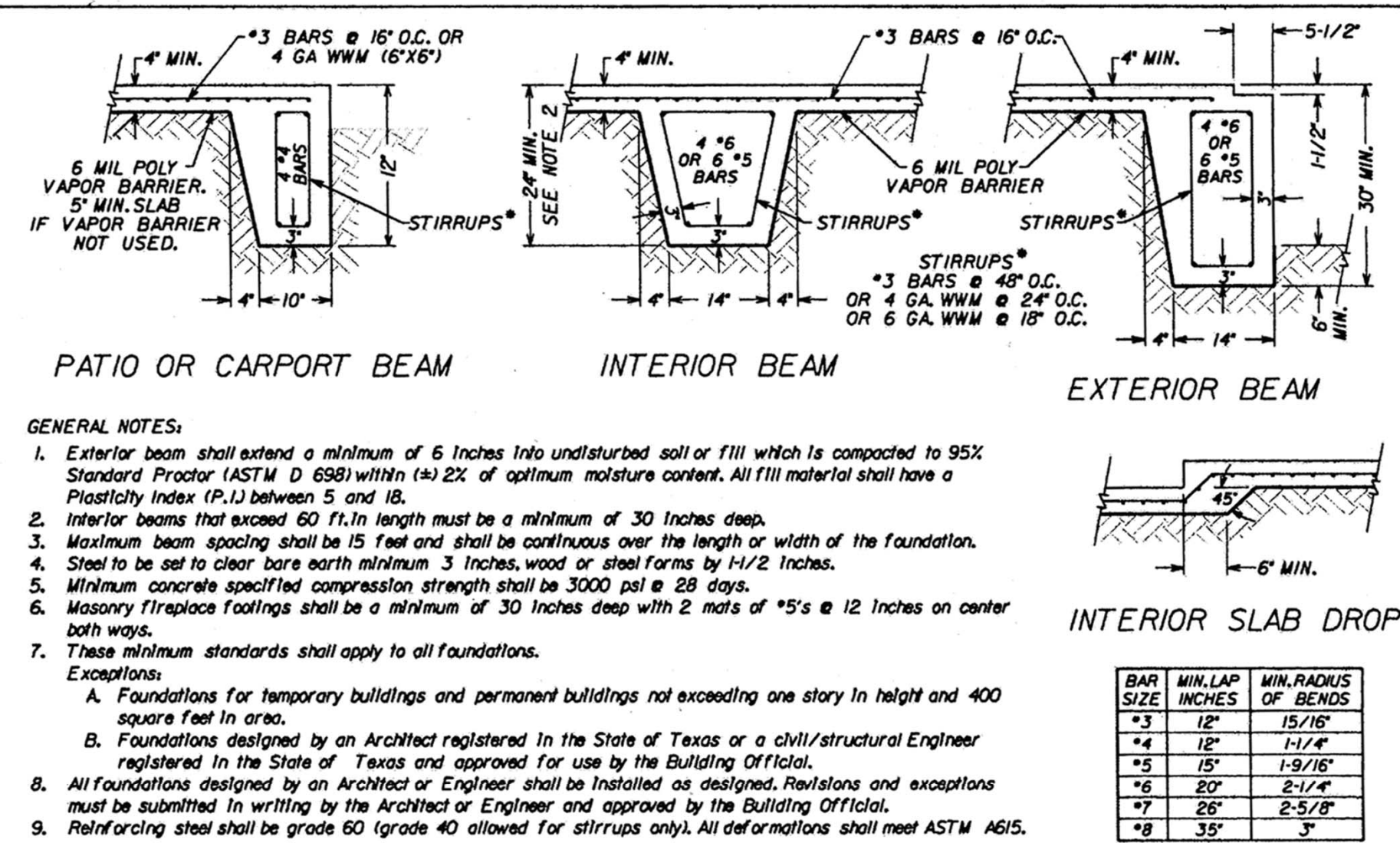


For ST: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE R602.10.6.3
METHOD PFG—PORTAL FRAME AT GARAGE DOOR OPENINGS IN SEISMIC DESIGN CATEGORIES A, B AND C

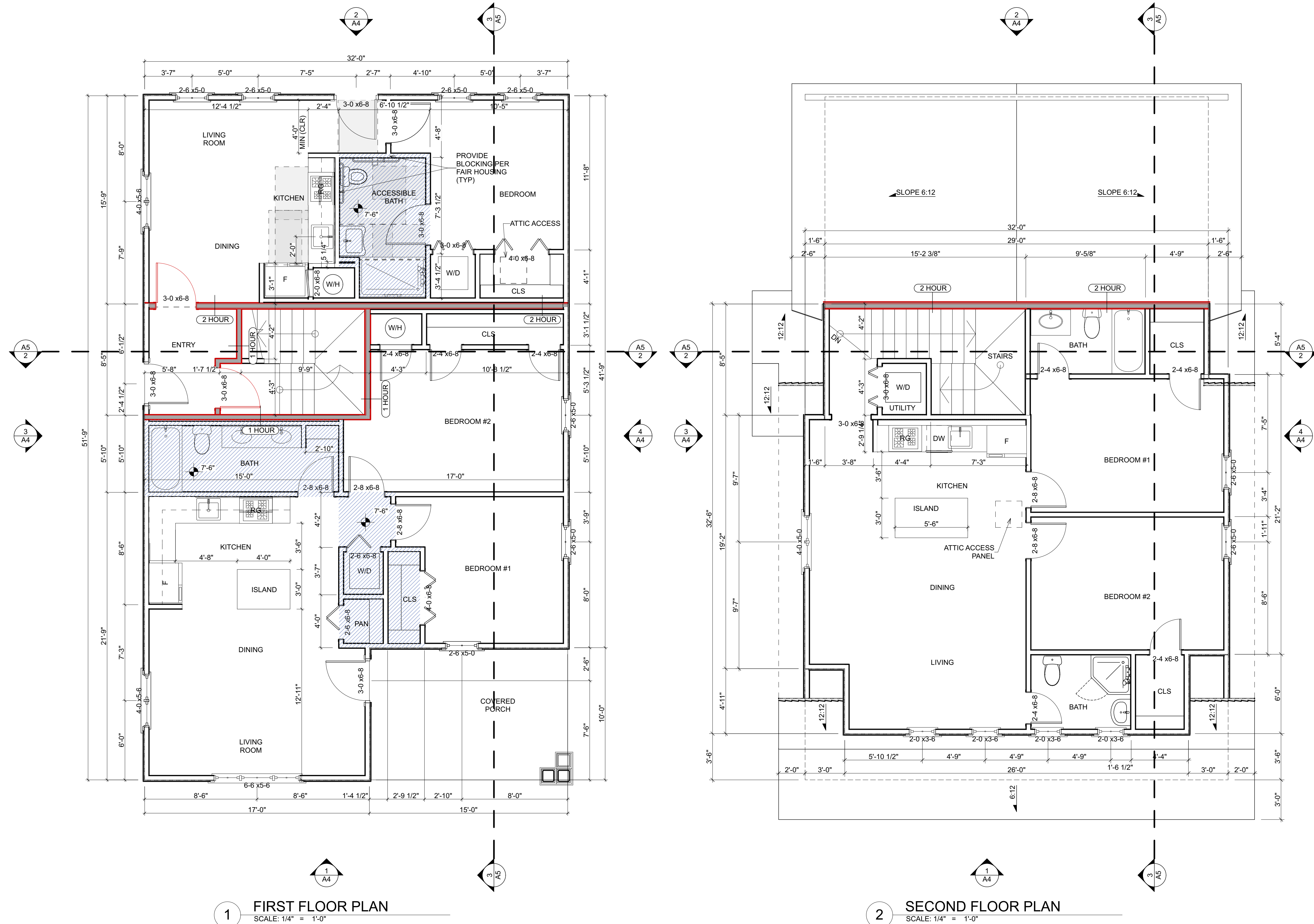
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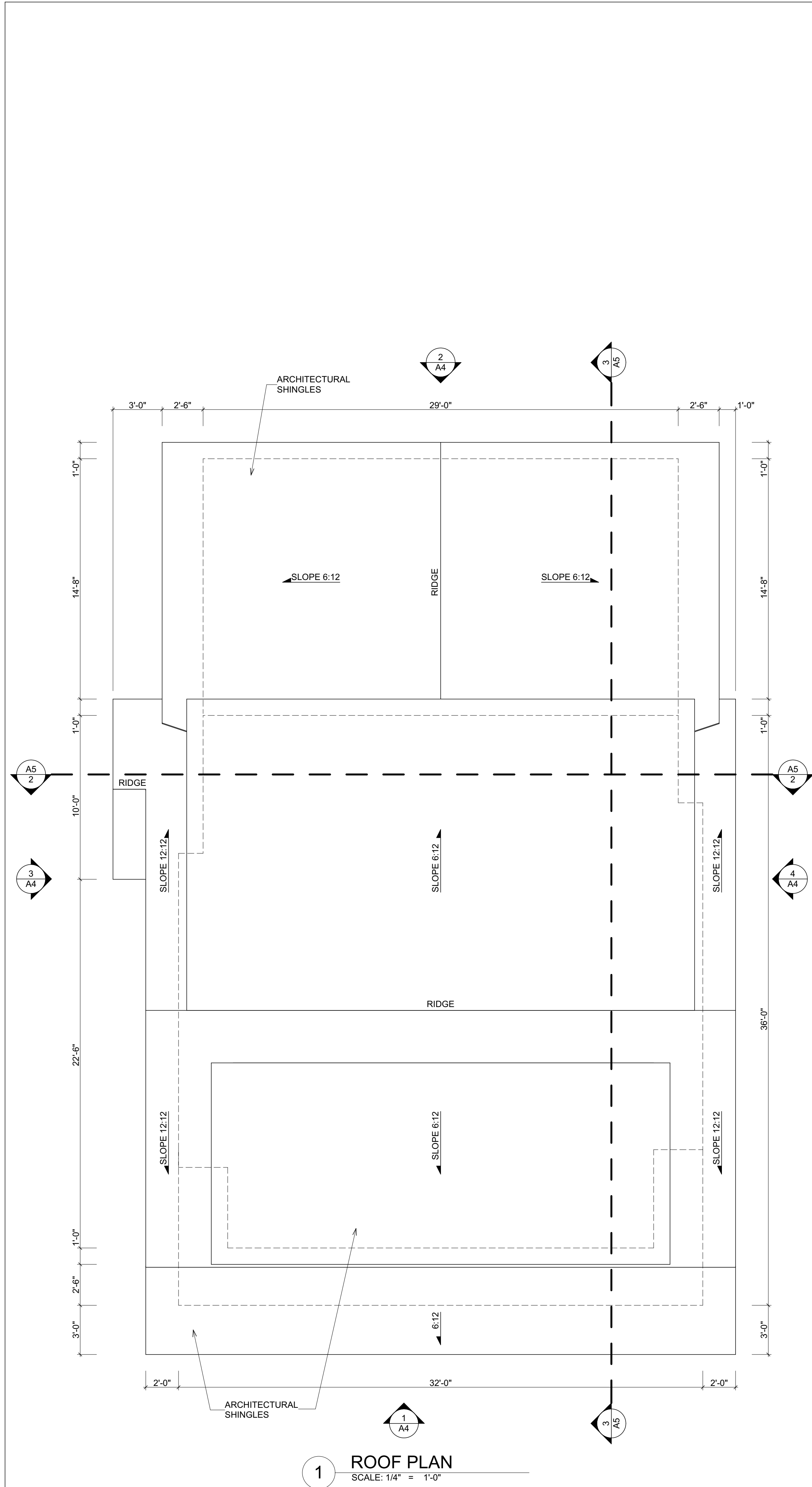
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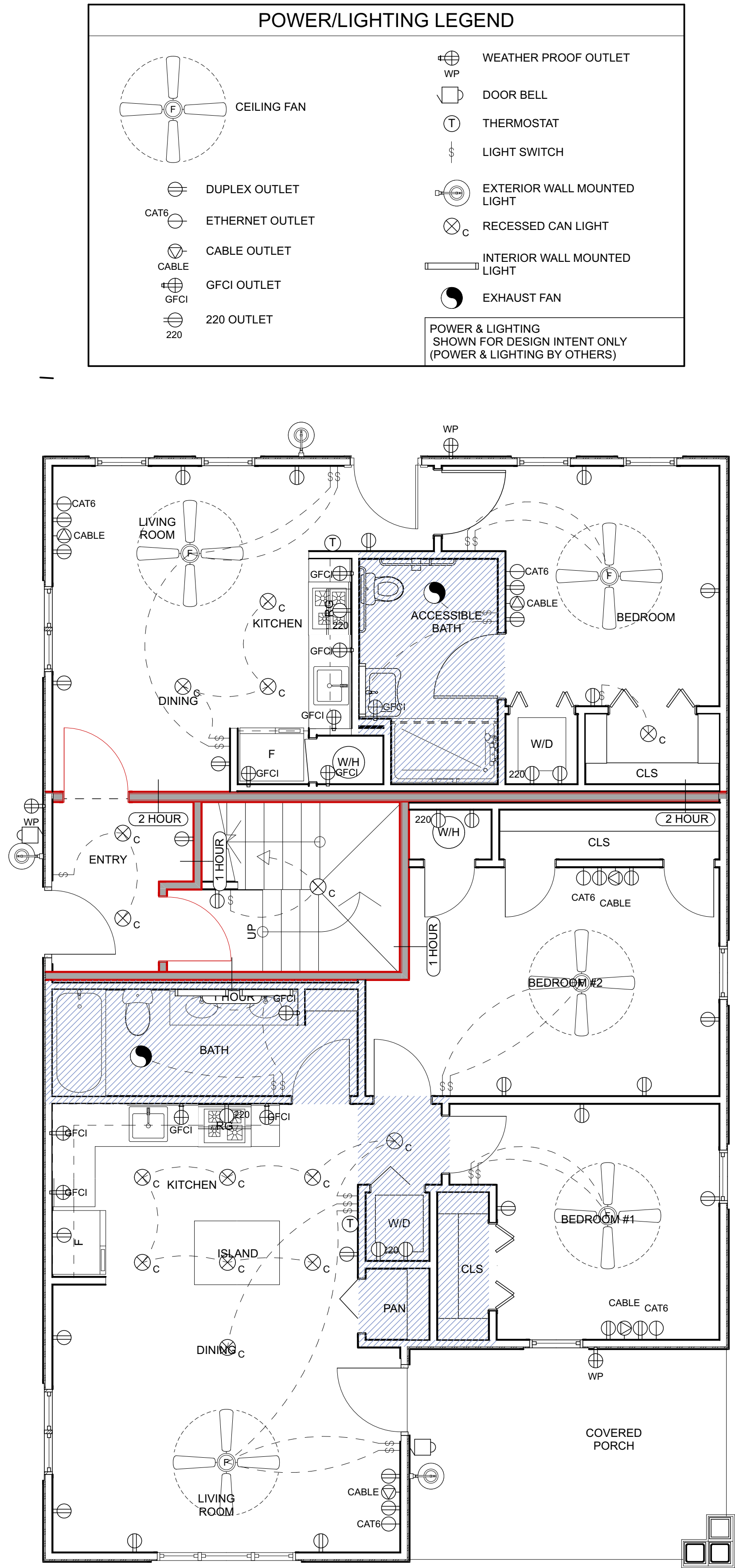
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BUILDING SERVICES
DIVISION

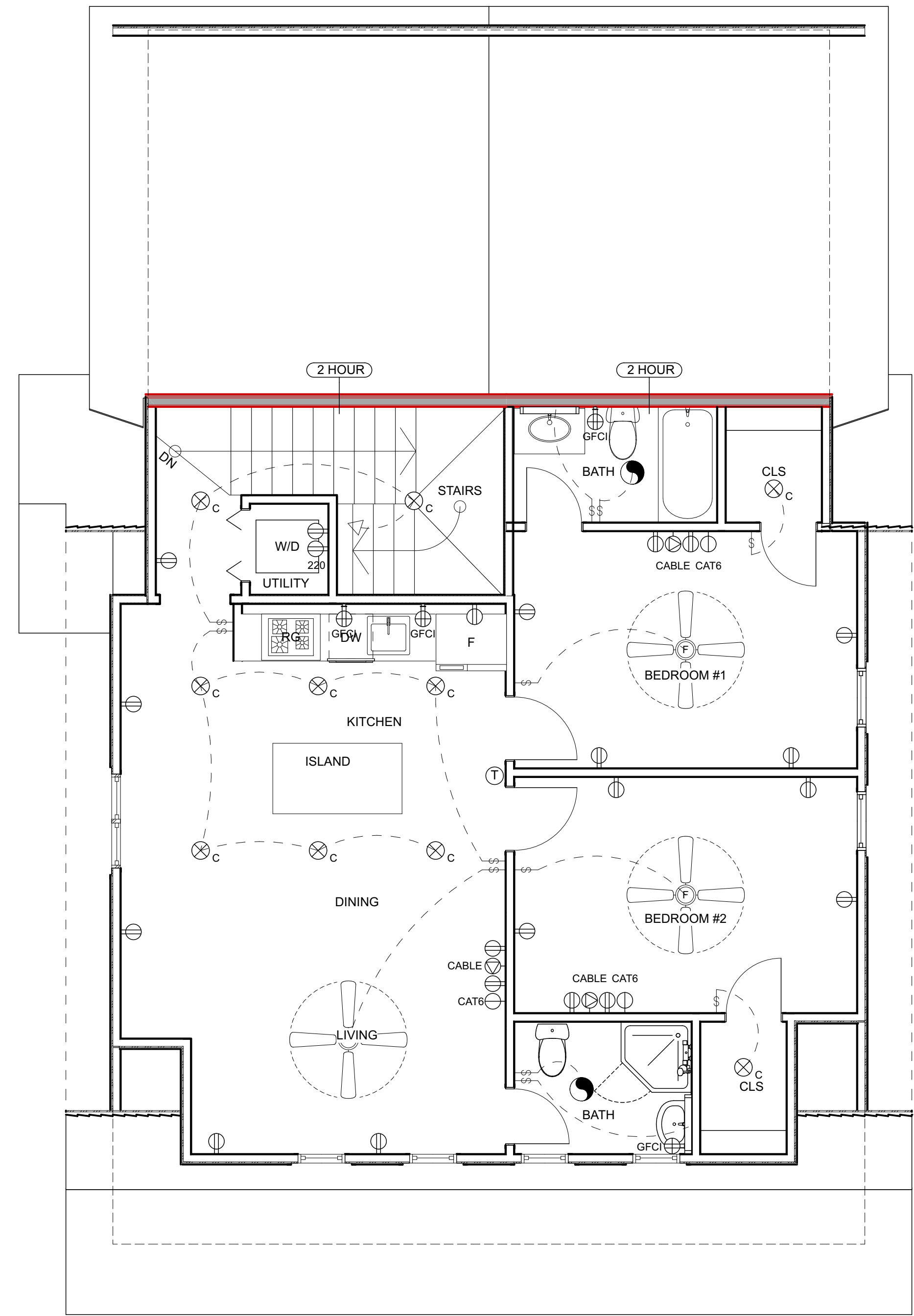




1 ROOF PLAN
SCALE: 1/4" = 1'-0"



2 FIRST FLOOR POWER & LIGHTING PLAN
SCALE: 1/4" = 1'-0"



3 SECOND FLOOR POWER & LIGHTING PLAN
SCALE: 1/4" = 1'-0"

NOTE: REFER TO ATTACHED SPECIFICATIONS
SECTION 09900 EXTERIOR PAINTS AND
COATINGS FOR ALL EXTERIOR FINISHES.



1 FRONT ELEVATION
SCALE: 1/4" = 1'-0"



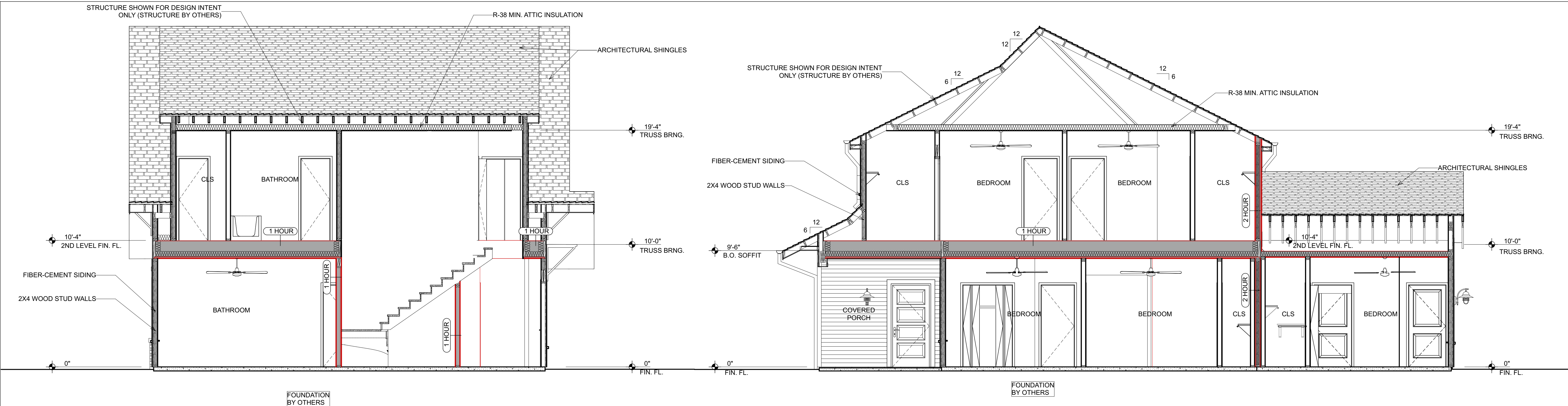
3 LEFT ELEVATION
SCALE: 1/4" = 1'-0"



2 BACK ELEVATION
SCALE: 1/4" = 1'-0"

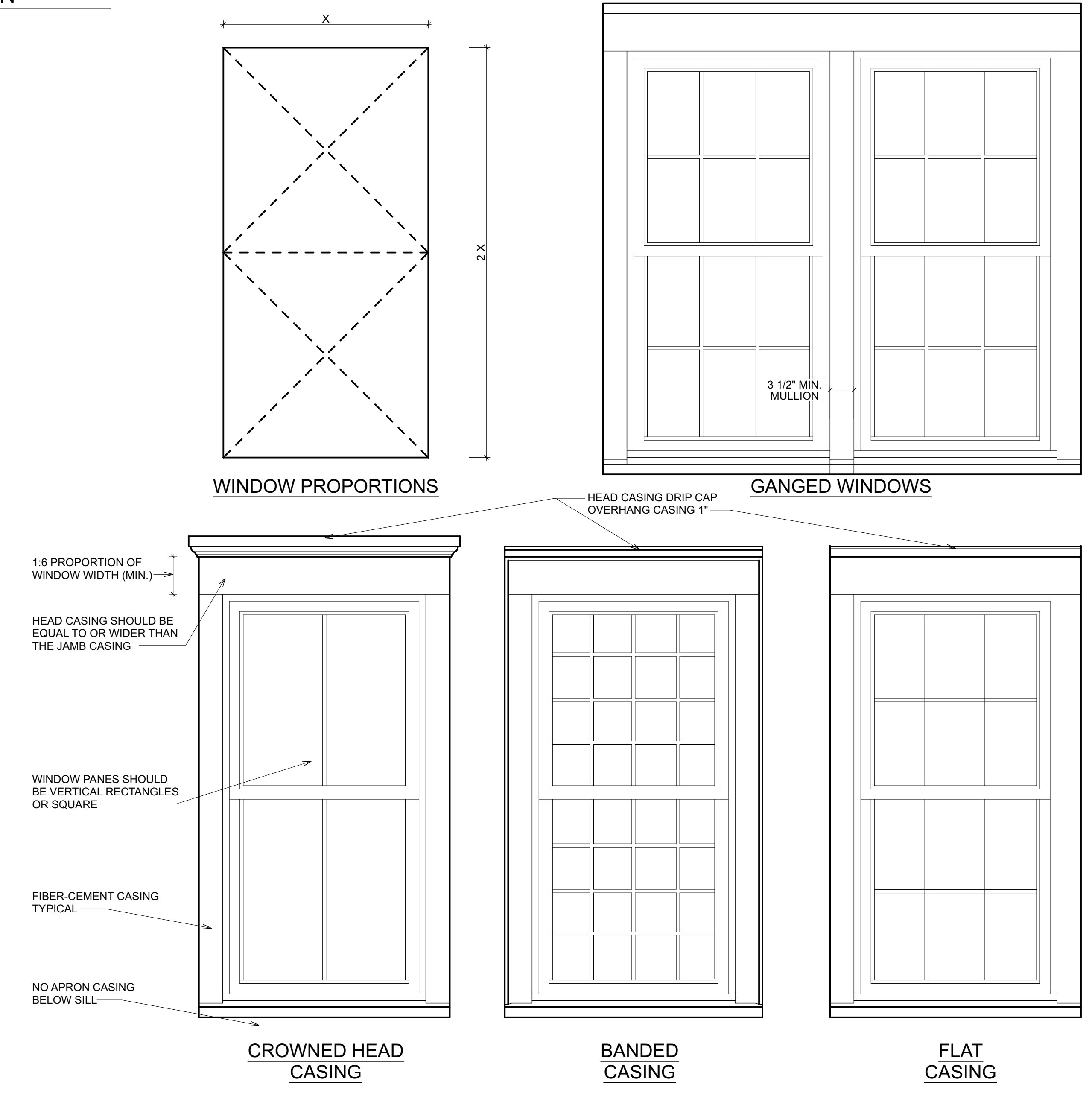


4 RIGHT ELEVATION
SCALE: 1/4" = 1'-0"



2 CROSS SECTION
SCALE: 1/4" = 1'-0"

3 LONGITUDINAL SECTION
SCALE: 1/4" = 1'-0"



1 TYPICAL WINDOW CASING DETAILS
SCALE: 1" = 1'-0"



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The Good Life, Texas Style.™

APARTMENT HOUSE
Option 3 Shed Dormer Apartment House
BRYAN, TEXAS

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SHEET CONTENTS

SECTIONS & DETAILS

SHEET

A5